ABSTRACT OF THE DISCLOSURE

A system adapted for use, e.g. in an MPEG audio-video decoder for decoding variable-length (e.g. Huffman) encoded codewords, each having associated a respective set of sign bits. The system operates on the basis of a signed decoding codebook including extended signed codewords. Each extended codeword includes a respective codeword in the original codebook plus the associated set of sign bits. The variable-length encoded codewords are decoded on the basis of the signed decoding codebook, whereby the codewords are decoded together with the sign bit set associated therewith. Preferably, the codewords are partitioned in "short" and "long" codewords with respect to a given threshold. The short codewords are decoded by means of a single lookup step in a first lookup table. The long words are decoded by lookup tables are preferably arranged as nested lookup tables within a container table.